Docket No.: 06727/0205274-US0 (PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

	t Application of: nam-Diamond et al.					
Applicatio	Application No.: 10/597,626 Confirmation No.: 4033					
Filed: Aug	ust 1, 2006	Art Unit: N/A				
DI	ECTROLESS COATING METHODS FOR POSITING SILVER-TUNGSTEN OATINGS, KITS AND PRODUCTS	Examiner: Not Yet Assigned				
	INFORMATION DISCLOSURE	STATEMENT (IDS)				
P.O. Box 1	oner for Patents 450 , VA 22313-1450					
Dear Sir:						
be conside	This Information Disclosure Statement is sub t is requested that the information set forth in red during the pendency of the above-identifi the filing date of the above-identified appli	this statement and in the listed documents fied application, and any other application				
(Check one	This IDS should be considered, in accordance of the boxes A-D)	ce with 37 C.F.R. 1.97, as it is filed:				
A.	A. within three months of the filing date of the above-identified national application or within three months of the entry into the national stage of the above identified national application					
x B.	before the mailing date of a first office action on the merits, or a first office action after filing a request for continued examination.					
C.	_					

2. In accordance with 37 C.F.R. 1.98, this IDS includes a list (e.g., form PTO/SB/08) of all patents, publications, or other information submitted for consideration by the office, either incorporated into this IDS or as an attachment hereto. A copy of each document listed is attached, except as explained below.

(check boxes A. B and/or C and fill in blanks, if appropriate.)

ation No.: 10/597,626	Docket No.: 06727/0205274-US0
X A. Pursuant to the 37 C.F.R. § 1.98(a)(2)(ii), Patent(s) and/or U.S. Patent Application is/are not being submitted. B. Document(s) is (are) de	on Publication(s) on PTO/SB08
document(s), and, in accordar each of the latter documents is enclosed.	nce with 1.98(c), only a copy of
C. Certain documents were previously cited the following prior applications, which 120:	
< <insert &="" f<="" no.="" serial="" td=""><td>FILING DATE>>></td></insert>	FILING DATE>>>
ant identifies these documents by attaching heret PTO/SB/08 from the files of the prior applicatents, and request that they be considered and mack 1.98(d), copies of these documents need not be to	tion(s) or a fresh PTO/SB/08 listing these de of record in accordance with 1.98(d). Per
3. Cite No(s) are no In accordance with 1.98(c), Applicant	
portions thereof), or a copy of	document (or of the pertinent of each corresponding English- or English-language abstract (or
report; citation of the documents be construed as an admission that	satisfied by the attached search cited in the search report shall not t they are or are considered to be,
MPEP §609).	bject matter claimed herein (See

and/or PTO/SB/08 documents, and req	s these documents by attaching hereto copies of the forms PTO-892, from the files of the prior application(s) or a fresh PTO/SB/08 li quest that they be considered and made of record in accordance with 1 spies of these documents need not be filed in this application.
□3.	Cite No(s) are not in the English language. In accordance with 1.98(c), Applicant states:
[An English translation of each document (or of the pertinen portions thereof), or a copy of each corresponding English language patent or application , or English-language abstract (or claim) is enclosed.
[The requirement for a concise explanation of the relevance of any foreign language document is satisfied by the attached search report, citation of the documents tied in the search report shall nob be construed as an admission that they are or are considered to be material to patentiability of the subject matter claimed herein (See MFEP 8609).
[A concise explanation of the relevance of document(s) is set forth as follows: [Insert concise explanation of
[A concise explanation of the relevance of document(s) can be found on page(s) of the specification.
[A concise explanation of document(s) can be found on the

Application No.: 10/597,626

x 4.	No explanation of relevance is necessary for documents in the English language (see reply to Comments 67 in the preamble to the final rules; 1135 OG 13 at 20).
5,	Other information being provided for the examiner's consideration follows:
	Search Report, dated, which issued during the
construed as a re considered to be, or attached is (or o	ecordance with 37 C.F.R. 1.97(g) and (h), the filing of this IDS should not be presentation that a search has been made or that information cited is, or is material to patentability as defined in §1.56 (b), or that any cited document listed constitutes) prior art. Unless other-wise indicated, the date of publication indicated in from the face of the item and Applicant reserves the right to prove that the date fact different.

Docket No.: 06727/0205274-US0

Early and favorable consideration is earnestly solicited.

The Commissioner is authorized to charge any deficiency of up to \$300.00 or credit any excess in this fee to Denosit Account No. 04-0100.

Dated: February 23, 2007

S. Pefer Ludwig Registration No.: 25,351 DARBY & DARBY P.C. P.O. Box 5257 New York, New York 10150-5257

Respectfully submitted.

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PTO/SB/08A/8 (09-06)
Approved for use through 03/31/2007, QMB 0551-0331
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449/PTO				Complete If Known		
				Application Number	10/597,626-Conf. #4033	
INF	ORMATI	ON DI	SCLOSURE	Filing Date	August 1, 2006	
STATEMENT BY APPLICANT				First Named Inventor	Yosi Shacham-Diamond	
				ArtUnit	N/A	
	(Use as man	y aheets a	necessary)	Examiner Name	Not Yet Assigned	
heet	1	d	2	Attorney Docket Number	06727/0205274-US0	

Examiner Cite Initials* No	-	-	Document Number	Publication Date	Name of Patentes or	Pages, Columns, Lines, Where
	No '	Number Knd Code ² (#Anown)	AM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear	
	AA*	US-5,882,441	03-16-1999	Davitz		
	AB*	US-5,817,195	10-06-1998			
-	AC*	US-6,613,818		Sakatoku et al.		
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	AK*	US-5,451,268	09-19-1995	Shepherd		
	AL*	US-4,006,026	01/1977	Dahms et al.		

1		FORE	GN PATENT	DOCUMENTS		
Examiner	-	Foreign Patent Document	Publication	Name of Palarise or	Pages, Columns, Lines,	
Initials*	No.	Country Code? -Number + Kind Code? (Filmown)	MWCD-YYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	7*
	DA	CD 636493	07.15.1040	Inmais Electric Co Ltd		_

"EVAMPER, total if relevance considered, whether or not dealine is an conformance with IMPER 600. One line through challon if not in post-timuses and not considered. Notice only of the term with mind commission in systems." Applicants views obtain delayed in marker (protects." See first Octor of Applicants in the considered in the conformation of the conformation

	NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), like of the erticle (when appropriate), the of the item (book, magazine, journel, serial, symposium, calking, etc.), date, page(s), volume-issue number(s), publisher, city and/or country when published.	T ⁰				
	CA	INBERG, A., et al., "Material and Electrical Properties of Electroless Ag-W Thin Film," Journal of Electronic Materials, Vol. 30, Issue 4, April 2001, pg. 355-359 (an abstract).	Г				
	CB	INBERG, A., et al., "Characterization of the Initial Growth Stages of Electroless Ag(W) Films Deposited on Si(100)," Journal of the Electrochemical Society, 148 (12), C784-C789, 2001.					
	СС	INBERG, A., et al., "Novel Highly Conductive Silver-Tungsten Thin Films Electroless Deposited from Benzoele Solution for Microelectronic Applications," Journal of the Electrochemical Society, 150 (5) C285-C291, 2003.					
	CD	GLICKMAN, E.E., et al., "Electrical Resistivity of Thin Electroless Ag-W films for Metallization," Microelectronic Engineering x, 2003 xxxx-xxx, pg. 1-6.	Г				
	CE	SHACHAM-DIAMOND, Yosi, et al., "Electroless Silver end Silver with Tungsten Thin Films for Microelectrorics and Microelectromechanical System Applications," Journal of the Electrochemical Society, 2000, 147 (9), pp. 3345-3345.	Г				
	CF	SHACHAM-DIAMOND, Yosi, et al., "Electroless Processes for Micro- and Nanoelectronics," Electrochimica Acta 48, 2003, pg. 2987-2996.	Г				
	CG	BOGUSH, V., et al., "Electroless Deposition of Novel Ag-W thin Films," Microelectronic Engineering 70, 2003, pg. 489-494.	Г				

PTO/SB08AB (98-05)
Approved for use through 93/31/2007, OMS 06:1-9031
U.S. Patent and Trademark Office; U.S. OEPARTMENT OF COMMERCE

Substitute for form 1449/PTO				Complete if Known		
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INF	ORMATI	ON DISC	LOSURE	Filing Date	August 1, 2006	
STATEMENT BY APPLICANT			PLICANT	First Named Invarior	Yosi Shacham-Diamond	
•				ArtUnit	N/A	
	(Use as many sheets as necessary)			Examiner Name	Not Yet Assigned	
Sheet	2	of	2	Altomey Docket Number	06727/0205274-US0	

CH	INBERG, A., et al., "Electroless-Deposited Ag-W films for Microelectronics Applications," Thin Solid Films 389, 2001, pg. 213-218.	
CI	BOGUSH, V., et al., "Material Properties of Very Thin Electroless Silver-Tungsten Films," Thin Solid Films 426, 2003, pg. 288-295.	

"SXAMMER" initial if reference considered, whether or not obtains is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant.

'Applicants unique cliation designation number logitional, "Applicant is to place a check mark here if English tanguage Translation is attached

Examiner	Date
Signature	Considered
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